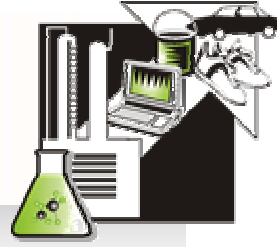


Advanced Autothermal Reformer



- Reducing soot formation in autothermal reformers improves syngas production
- Avoids use of energy-intensive steam-methane reformers in ammonia and methanol production
- Reduces NO_x and CO_2 emissions by 30 to 50% and cuts steam use by 60%



Advanced Autothermal Reformer

*Sandia National Laboratories
Kellogg Brown & Root, Inc.
Süd Chemie, Inc.*